

<b>Aeronautics Educator Guide</b>			
<b>2007 Science</b>			
<b>Grade Expectations</b>			
<b>Vermont Science</b>			
<b>Grades 1-2</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Plan to Fly There (97-106)	VT	SCI.1-2.S1-2:19.a	The position and movement of an object can be described as fast, slow, speeding up, or slowing down and as movement in a certain direction.
Dunked Napkin ( 17-22)	VT	SCI.1-2.S1-2:1.2	Investigating and completing questions to identify a variable that can be changed (e.g., What will happen if...? or I wonder if I change...?).
Dunked Napkin ( 17-22)	VT	SCI.1-2.S1-2:3.1.b	What will be observed, measured, and/or compared.
Dunked Napkin ( 17-22)	VT	SCI.1-2.S1-2:4.1	Referring to and following a simple plan for an investigation.
Dunked Napkin ( 17-22)	VT	SCI.1-2.S1-2:19.1	Investigating and describing how objects move in different ways.
Dunked Napkin ( 17-22)	VT	SCI.1-2.S1-2:29.1	Experimenting with different objects and observing and describing the vibrations of those objects, as well as the sounds that are made.
Paper Bag Mask (23-28)	VT	SCI.1-2.S1-2:2.1	Predicting a logical outcome to a situation, using prior knowledge, experience and/or evidence.
Wind in Your Socks) (29-35)	VT	SCI.1-2.S1-2:3.1.b	What will be observed, measured, and/or compared.
Wind in Your Socks) (29-35)	VT	SCI.1-2.S1-2:48.1	Observing and recording weather data through the seasons and identifying and drawing conclusions based on the patterns in the data collected.
Sled Kite (44-51)	VT	SCI.1-2.S1-2:3.1.b	What will be observed, measured, and/or compared.
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<b>Grades 3-4</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
Air Engines (12-16)	VT	SCI.3-4.S3-4:3.1.d	Appropriate timing between observations (intervals) and/or number of trials needed.
Air Engines (12-16)	VT	SCI.3-4.S3-4:5.2	Displaying and labeling data for separate trials/observations.
Air Engines (12-16)	VT	SCI.3-4.S3-4:12.a	Solids, liquids and gases are states of matter that can be observed, described, and measured.
Dunked Napkin ( 17-22)	VT	SCI.3-4.S3-4:4.1	Referring to and following a detailed plan for an investigation.
Dunked Napkin ( 17-22)	VT	SCI.3-4.S3-4:6.2	Relating data to the original question and prediction.

Dunked Napkin ( 17-22)	VT	SCI.3-4.S3-4:7.1	Providing a reasonable explanation that accurately reflects data.
Dunked Napkin ( 17-22)	VT	SCI.3-4.S3-4:13.1	Experimenting with gas in a closed container (such as a balloon or a bag) and describing how pressure on the container changes when the volume of the gas changes.
Wind in Your Socks) (29-35)	VT	SCI.3-4.S3-4:4.2	Clearly describing evidence and quantifying observations with appropriate units.
Wind in Your Socks) (29-35)	VT	SCI.3-4.S3-4:48.1	Observing, recording and analyzing local weather data and making predictions based on that data.
Air: Interdisciplinary Learning Activities (36-39)	VT	SCI.3-4.S3-4:48.b	Air is a substance that surrounds us, takes up space and whose movement we feel as wind.
Bag Balloons (40-43)	VT	SCI.3-4.S3-4:48.a	Weather changes from day to day and over the seasons. Weather can be described by measurable quantities (such as temperature, wind direction and speed, precipitation and air pressure).
Sled Kite (44-51)	VT	SCI.3-4.S3-4:1.1	Identifying at least one variable that affects a system and using that variable to generate an experimental question that includes a cause and effect relationship